INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/36649

A. CLAS	SIFICATION OF SUBJECT MATTER	•	
IPC(7) : G02C 7/04			
TIS CT. : 351/160R			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 351/160R,159,160H,163,165,166,172,174,177,178			
U.S. ; 331/100K,139,100H,103,103,100,172,17 4,177,170			
to the state of th			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
EAST			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Х	US 6,325,509 (HODUR et al) 04 December 2001 (04	4.12.2001), column 2, line 55-Column	1-2, 8-9, 13, 19-20
	9, line 5.		3-7, 10-12, 14-18, 21-
Y			22
Y	GB 1,417,650 (SOHNGES) 10 December 1975 (10.1	12.1975), column 1, line 1-column 3,	3-7, 15-18
1	line 73.		
Y	US 6,241,355 B1 (BARSKY) 05 June 2001 (05.06.2001), column 5, line 38-column 17, line		10-12, 14, 21-22
	37.		1-22
Α	US 6,412,946 B1 (VIJFVINKEL et al) 02 July 2002 (02.07.2002), column 2, line 48- column 5, line 8.		1 - 22
	Column 2, time 8.		
Further documents are listed in the continuation of Box C. See patent family annex.			
• Special categories of cited documents: "T" later document published after the			
"A" document defining the general state of the art which is not considered to be		date and not in conflict with the appli principle or theory underlying the inv	
of partice	ular relevance		
"E" earlier ag	pplication or patent published on or after the international filing date	considered novel or cannot be considered	ered to involve an inventive step
when the document is taken alone			
establish the publication date of another citation or other special reason (as		"Y" document of particular relevance; the	claimed invention cannot be
specified)		considered-to-involve an inventive sec combined with one or more other suc	h documents, such combination
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	ne art
"P" document published prior to the international filing-date-but-later-than-the		"&" document member of the same patent	family
priority date claimed			
Date of the actual completion of the international search		Date of mailing of the international search report 10 JUN 2005	
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